



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGW-4-LED-27L-CA-S-40-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3649
[TESTLAB] TUV SUD America
[TESTDATE] 1/16/2019 1:57:47 PM
[ISSUEDATE] 03/11/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] EGW-4-LED-27L-CA-S-40-80
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27753
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	191
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	41072	28124	37874
55	38054	24084	30149
65	31566	17951	20282
75	32541	12804	8028
85	28451	8586	2049

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	11201	11201	11201	11201	11201	11201	11201	11201	11201	11201
2.5	9616	9059	9482	10679	11748	9847	8597	8411	8849	8411
5.0	8814	8625	7567	8192	11648	7664	7733	8241	8496	8241
7.5	9489	8684	8434	6995	11581	7280	7651	9234	10560	9234
10.0	10706	10976	8319	7208	11472	7774	8688	11625	11469	11625
12.5	9571	9875	9839	8095	11389	7453	11529	9098	7806	9098
15.0	7885	7953	10479	8428	11237	6892	10448	6694	6637	6694
17.5	8880	7434	8119	7749	11099	7029	6678	7199	9233	7199
20.0	9688	9820	7309	7844	10923	8765	6064	9636	10431	9636
22.5	7707	9274	7240	9895	10668	11777	6448	8577	6603	8577
25.0	6313	6516	8480	11228	10425	12068	8827	6027	6432	6027
27.5	6107	6137	8815	9411	10164	8575	9217	6258	8700	6258
30.0	6350	6046	7224	6816	10002	5890	6321	8183	8861	8183
32.5	7253	6248	5900	5757	9759	5275	5505	9141	7794	9141
35.0	7269	6891	5666	6118	9535	4996	6211	7391	7944	7391
37.5	7026	6958	5440	6422	9238	5051	7559	6934	6762	6934
40.0	6479	6830	5465	6790	8923	6881	8324	6856	6691	6856
42.5	5705	6067	5900	7783	8637	7639	7008	5961	6714	5961
45.0	5851	5476	5658	6656	8298	5758	6122	6015	6271	6015
47.5	6024	5634	5703	4760	7840	5122	5552	5922	5644	5922
50.0	5498	5579	5466	4235	7314	5091	4743	5777	4656	5777
52.5	4445	5110	4823	4180	6791	5056	4588	4472	5120	4472
55.0	4542	4197	4513	3975	6275	4998	4384	4221	4546	4221
57.5	4200	4189	4209	3758	5837	4770	4276	4313	4247	4313
60.0	3692	3995	4011	3557	5265	4019	3708	3422	4224	3422
62.5	3796	3533	3442	3223	4589	3291	3017	3401	3434	3401
65.0	2924	3528	3014	2781	3871	2824	2945	3364	3944	3364
67.5	2851	2913	2864	2479	3181	2403	2783	2844	3125	2844
70.0	2651	2628	2566	2258	2488	1968	2250	3056	2783	3056
72.5	2085	2565	2165	1943	1864	1539	2038	2463	2820	2463
75.0	2053	2043	1835	1591	1347	1239	1898	2221	2637	2221
77.5	2274	2059	1584	1307	928	1047	1860	2552	2605	2552
80.0	1707	1926	1588	1065	623	872	1682	1846	1846	1846
82.5	1083	1257	1425	832	420	748	1184	1293	1419	1293
85.0	900	855	982	685	286	605	799	978	1089	978
87.5	729	691	643	513	195	379	638	863	978	863
90.0	663	609	469	325	126	301	575	774	881	774
92.5	633	581	385	250	111	277	569	726	818	726
95.0	634	574	366	235	118	260	579	692	740	692
97.5	553	548	369	232	120	234	549	642	645	642
100.0	448	464	356	217	114	203	488	572	599	572
102.5	400	401	332	192	103	163	431	543	599	543
105.0	374	368	311	160	88	113	364	507	575	507
107.5	349	337	284	117	74	72	298	449	517	449
110.0	317	300	246	72	61	40	250	392	458	392
112.5	280	265	207	37	49	18	202	348	404	348
115.0	251	233	163	18	37	10	142	308	368	308
117.5	228	210	118	11	25	5	90	265	335	265
120.0	209	185	81	7	16	2	64	208	290	208
122.5	174	146	56	4	9	1	44	144	218	144
125.0	132	106	38	2	4	0	20	111	158	111
127.5	98	76	13	1	1	0	1	82	125	82
130.0	71	60	0	0	1	0	0	62	89	62
132.5	56	44	0	1	1	0	0	30	65	30

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CANDELA TABULATION - (Cont.)

135.0	38	15	0	1	1	1	0	3	30	3
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	11201	11201	11201	11201	11201	11201	11201
2.5	8597	9847	11748	10679	9482	9059	9616
5.0	7733	7664	11648	8192	7567	8625	8814
7.5	7651	7280	11581	6995	8434	8684	9489
10.0	8688	7774	11472	7208	8319	10976	10706
12.5	11529	7453	11389	8095	9839	9875	9571
15.0	10448	6892	11237	8428	10479	7953	7885
17.5	6678	7029	11099	7749	8119	7434	8880
20.0	6064	8765	10923	7844	7309	9820	9688
22.5	6448	11777	10668	9895	7240	9274	7707
25.0	8827	12068	10425	11228	8480	6516	6313
27.5	9217	8575	10164	9411	8815	6137	6107
30.0	6321	5890	10002	6816	7224	6046	6350
32.5	5505	5275	9759	5757	5900	6248	7253
35.0	6211	4996	9535	6118	5666	6891	7269
37.5	7559	5051	9238	6422	5440	6958	7026
40.0	8324	6881	8923	6790	5465	6830	6479
42.5	7008	7639	8637	7783	5900	6067	5705
45.0	6122	5758	8298	6656	5658	5476	5851
47.5	5552	5122	7840	4760	5703	5634	6024
50.0	4743	5091	7314	4235	5466	5579	5498
52.5	4588	5056	6791	4180	4823	5110	4445
55.0	4384	4998	6275	3975	4513	4197	4542
57.5	4276	4770	5837	3758	4209	4189	4200
60.0	3708	4019	5265	3557	4011	3995	3692
62.5	3017	3291	4589	3223	3442	3533	3796
65.0	2945	2824	3871	2781	3014	3528	2924
67.5	2783	2403	3181	2479	2864	2913	2851
70.0	2250	1968	2488	2258	2566	2628	2651
72.5	2038	1539	1864	1943	2165	2565	2085
75.0	1898	1239	1347	1591	1835	2043	2053
77.5	1860	1047	928	1307	1584	2059	2274
80.0	1682	872	623	1065	1588	1926	1707

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82.5	1184	748	420	832	1425	1257	1083
85.0	799	605	286	685	982	855	900
87.5	638	379	195	513	643	691	729
90.0	575	301	126	325	469	609	663
92.5	569	277	111	250	385	581	633
95.0	579	260	118	235	366	574	634
97.5	549	234	120	232	369	548	553
100.0	488	203	114	217	356	464	448
102.5	431	163	103	192	332	401	400
105.0	364	113	88	160	311	368	374
107.5	298	72	74	117	284	337	349
110.0	250	40	61	72	246	300	317
112.5	202	18	49	37	207	265	280
115.0	142	10	37	18	163	233	251
117.5	90	5	25	11	118	210	228
120.0	64	2	16	7	81	185	209
122.5	44	1	9	4	56	146	174
125.0	20	0	4	2	38	106	132
127.5	1	0	1	1	13	76	98
130.0	0	0	1	0	0	60	71
132.5	0	0	1	1	0	44	56
135.0	0	1	1	1	0	15	38
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3353.55	N.A.	12.10
0-30	7257.22	N.A.	26.10
0-40	11601.24	N.A.	41.80
0-60	20657.05	N.A.	74.40
0-80	25832.02	N.A.	93.10
0-90	26752.55	N.A.	96.40
10-90	25886.32	N.A.	93.30
20-40	8247.69	N.A.	29.70
20-50	13106.37	N.A.	47.20
40-70	12218.58	N.A.	44.00
60-80	5174.97	N.A.	18.60
70-80	2012.2	N.A.	7.30
80-90	920.52	N.A.	3.30
90-110	786.37	N.A.	2.80
90-120	941.41	N.A.	3.40
90-130	993.07	N.A.	3.60
90-150	1000.47	N.A.	3.60
90-180	1000.47	N.A.	3.60
110-180	214.10	N.A.	0.80
0-180	27753.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	866.22
10-20	2487.33
20-30	3903.66
30-40	4344.03
40-50	4858.68
50-60	4197.13
60-70	3162.77
70-80	2012.2
80-90	920.52
90-100	473.15
100-110	313.22
110-120	155.04
120-130	51.66
130-140	7.40
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

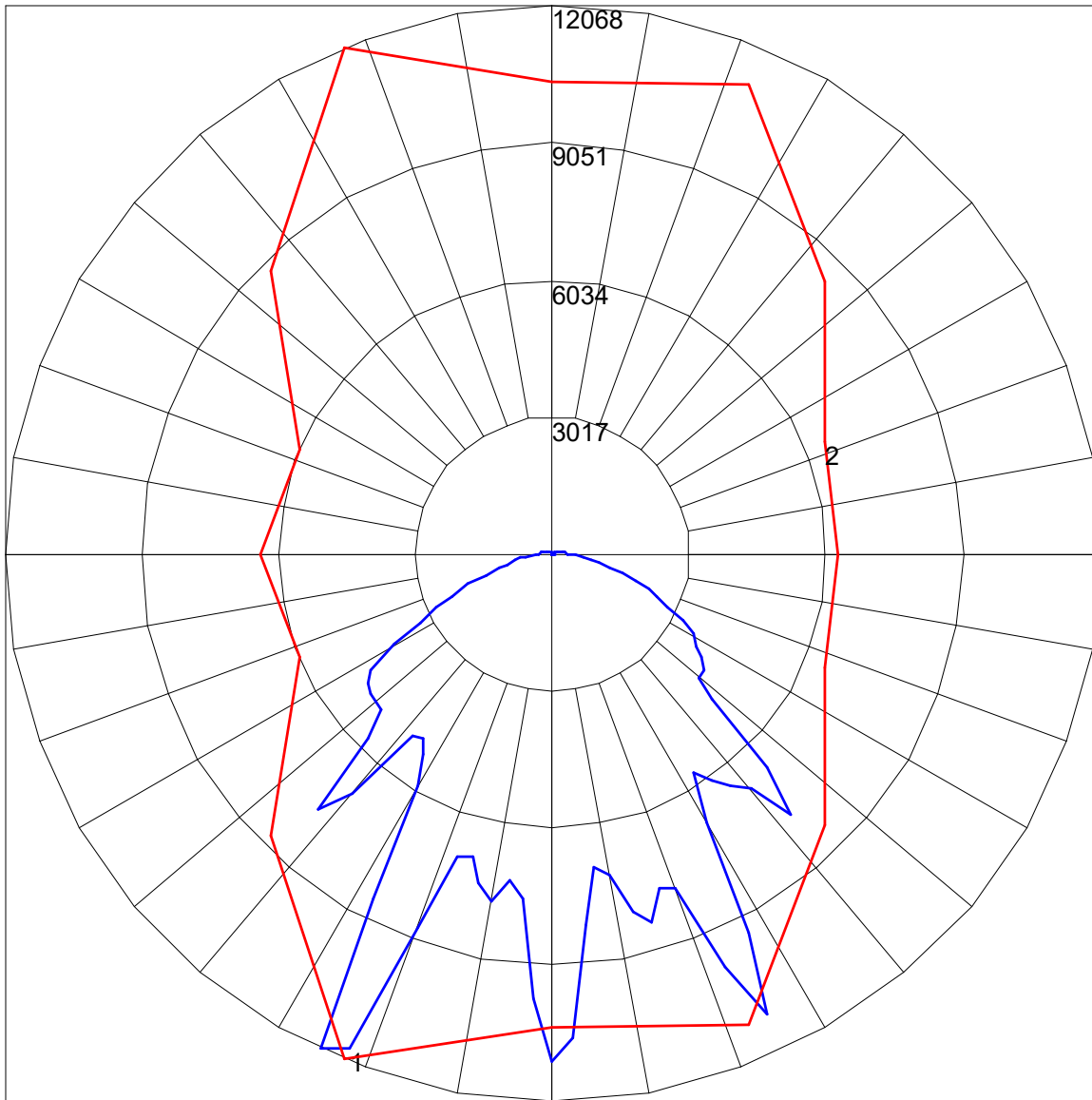
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	98	94	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	55	50	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 12068 Located At Horizontal Angle = 112.5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)